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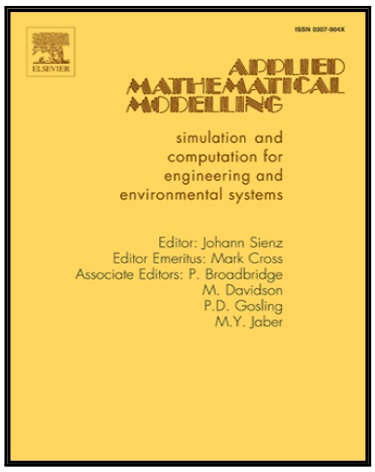

Analytical solutions for lined circular tunnels in viscoelastic rock considering various interface conditions

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Highlights

- An analytical solution is proposed for lined circular tunnels in viscoelastic rock.
- All the possible interface conditions of rock-liner and liner-liner are considered.
- Any viscoelastic models and installation times of two liners can be considered.
- The influences of installation time of second liner are investigated.
- An analytically-based method for design of the second liner is provided.

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